

	Application No.	Applicant(s)
Notice of Allowability	10/002,909	YUAN, PING
	Examiner	Art Unit
	DiLinh Nguyen	2814
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>1/23/04</u> .		
2. The allowed claim(s) is/are <u>1-3 and 5-7.</u>		
3. The drawings filed on 25 March 2002 are accepted by the Examiner.		
4.		
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☐ Examiner's Amendr	te

## **DETAILED ACTION**

## REASONS FOR ALLOWANCE

Claims 1-3 and 5-7 are allowed.

The following is an examiner's statement of reasons for allowance:

Su et al. and Scholl fail to disclose the combination of all the limitations recited, including an impact layer disposed substantially adjacent to a second doped layer and the absorption narrow bandgap layer, wherein the ratio of the ionization coefficient for electrons relative to the ionization coefficient for holes for the impact layer is larger than the corresponding ratio for the absorption narrow bandgap layer, the wide bandgap layer, the first doped layer, and the second doped layer.

Therefore, the amended limitations together with the overall structure of the high bandwidth semiconductor photodiode responsive to incident electromagnetic radiation is neither anticipated nor rendered obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DiLinh Nguyen whose telephone number is (571) 272-1712. The examiner can normally be reached on 8:00AM - 6:00PM (M-F).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DLN February 25, 2004

> LOYG PHAM PETT AY EXAMINER